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(54) Title: PROTEINS INDUCING MULTIPLE RESISTANCE OF PLANTS TO PHYTOPATHOGENS AND PESTS

(57) **Abstract:** The object of the invention is a protein, termed MF3, or a functional derivative thereof with a novel structure that surprisingly can induce multiple resistance in plants toward a variety of viral and microbial infections and against pests. The invention also concerns an isolated DNA sequence encoding MF3 protein, as such, or as a part of any DNA sequence, or a fragment thereof, or DNA sequences which have degenerate codons with respect to the DNA sequence defined above. The invention also concerns a method of isolating and purifying the protein MF3 from bacterial cells expressing the said protein and its use as a plant protectant with or without carrier agent Furthermore, the invention concerns a method of obtaining transgenic plants expressing said protein. A further object of the invention is the use of the protein, or of compositions containing the same, as a plant protectant, biopesticide for inducing resistance of plants to viral, microbial phytopathogens and pests.